

Figures in parentheses are the increases or reductions from the previous fiscal year. *1: Also includes chemicals other than the 12 substances that have been targeted for reduction. *2: HCFC-22 and HCFC-225cb are substances that deplete the ozone layer. *3: Calculated from the volumes of chemicals and SOX, NOX, based on 'JEPIX Simple Calculation Sheet2.2." Energy: Consumption x calorific value: CO:: Electricity consumption x CO₂ emissions factor; Other fuels: Consumption of other fuels x calorific value: Act on the Rational Use of Energy. Voltable gasoline: 34.6 GJ/kL; kerosene: 36.7 GJ/kL; lesel: 37.7 GJ/kL; LPG: 50.8 GJ/t; daytime electricity purchased: 9.97 GJ/MWh; nighttime electricity purchased: 9.28 GJ/MWh. Calorific value of city gas (the three works in Japan, Sales/Marketing & Technical Division, and the Production Engineering Center): Hatano Gas, Toho Gas, and Osaka Gas, 45 GJ/1.000 m³. Source for emissions factors: Appendix 1, Ministerial Ordinance on Calculation of Greenhouse Gas Emissions Arising from the Business Activities of Specified Emitters. Gasoline: 0.0183 tC/GJ; kerosene: 0.0185 tC/GJ; bes: 0.0185 tC/GJ; city gas (Shiga Works and Production Engineering Center): O.1036 tC/GJ. Other sources for city gas (Hatano Works, Sales/Marketing & Technical Division (Hadano), Nagoya Works and Sales/Marketing & Technical Division (Kasadera)): Hatano Gas, Toho Gas, Onto Steries CJ, diseei: 0.018 tC/GJ; totics: 0.0185 tC/GJ.

0.0139 tC/GJ.

UND 39 (COL). Electricity: the GHG Emissions Accounting, Reporting, and Disclosure System, 2016. Emissions factors for each utility for FY 2015. Available at: http://ghg-santeikohyo.env.go.jp/calc, retrieved June 2017. Hatano Works and Sales/Marketing & Technical Division (Hadano): Tokyo Electric Power Company, 0.500 tCO₂/MWh; Nagoya Works and Sales/Marketing & Technical Division (Kasadera): Chubu Electric Power, 0.486 tCO₂/MWh; Shiga Works and Sales/Marketing & Technical Division (Kasadera): Chubu Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Engineering Center: Kansai Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Electric Power, 0.486 tCO₂/MWh; Shiga Works and Production Electric 0.509 tCO₂/MWh.

Environmental Accounting

Target Period: April 1, 2016 to March 31, 2017 (FY 2016)
Scope: Head Office, Three Domestic Works (Hatano, Nagoya, and Shiga), Sales/Marketing & Technical Division (hereinafter referred to collectively as "SMTD"), Production Engineering Center (hereinafter referred to as "PEC")
Calculation Method: Calculation items are in accordance with the Environmental Accounting Guidelines 2005 issued by the Ministry of the Environment. Business trip expenses are excluded from the calculations.

Environmental Conservation Costs (Scope: Head Office, Three Domestic Works, SMTD and PEC. Unit: ¥1,000)

	Category	Key Activities	Investment	Costs		
(1) Business A	rea Costs					
	(1)-1 Pollution Prevention Costs	Improvements, checks and inspections of pollution prevention equipment	2,220	82,107		
Breakdown	(1)-2 Global Environmental Conservation Costs	Installing LED lights, update energy-saving furnace and equipment	218,533	95,352		
	(1)-3 Resource Circulation Costs	Waste disposal costs	0	75,042		
(2) Upstream/	Downstream Costs	Redesigning of skids for loading efficiency, etc.	0	0		
(3) Administration Costs		Review costs, costs for creating reports, education, greenification, etc.	865	27,106		
(4) R&D Costs		R&D costs of EFPs, equipment investment, etc.*	0	151,676		
(5) Community Activity Costs		Donations to environmental conservation bodies, etc.	0	30		
(6) Environmental Remediation Costs -			0	0		
	Tc	221,618	431,313			

**Cost* includes depreciation costs. Applies to equipment acquired in 2013 and later. The high cost for research and development is due to large number of specific research goals.

Environment Conservation Benefit (Scope: three domestic works, SMTD, PEC.)

Environmental Conservation Benefit Categories	Environmental Performance Indicators (Units)	FY 2015	FY 2016	Environmental Conservation Benefits
	Total energy input volume (GJ)	768,111	770,543	-2,432
	Energy input volume by type: Electricity (MWh)	66,608	67,743	-1,135
Environmental Concentration	Kerosene (kL)	98	103	-5
Benefit Related to Resources	Gasoline (kL)	6	5	1
Input into Business Activities	City gas (1,000m ³)	2,067	2,293	-225
	LPG (t)	479	114	365
	Water consumption (m ³)	228,615	225,540	3,075
	CO2 emissions (tCO2)	40,449	39,603	846
Environmental Conservation	CO ₂ emissions per processing value (tCO ₂ / million JPY)	0.784	0.752	0.032
Benefit Related to Waste or Environmental Burden Originating	Release and transfer of PRTR-specified chemicals (tonnes)*	42	32	11
from Business Activities	Waste (tonnes)	3,588	3,565	23
	Final disposal (tonnes)	54	57	-4
Other Environmental	Noise (dB) (maximum value)	70	71	-1
Conservation Benefits	Vibration (dB) (maximum value)	52	46	6

*Also includes chemicals other than the 12 substances that have been targeted for reduction. For details, see pp. 47, 49, and 50. "Conservation Benefits" shows the results of calculations that include values below the decimal point.

Economic Benefits Associated with Environmental Conservation Activities (Scope: Head Office, Three Domestic Works, SMTD, and PEC. Unit: ¥1,000)					
Details of Benefit Amoun					
Revenue	Revenue from the sale of recycled waste products and used products	223,438			
Cost Paductions	Reductions in energy costs through energy saving	22,378			
	Reductions in waste disposal costs through resource saving or recycling	886			
Total					

FY 2016 Environmental Performance Data

		Morks N	amo		Hatano Works	
Address		WORKS IN		937 Sova, Hadan	o-shi. Kanagawa, Ja	apan
Major Products				Radiators, Oil coo assy for waste he	olers, Air coolers, at recovery system	EGR coolers, Cor Is
Photograph of the	9 Works					
General Environm	ental Data			1		
Input	Energy Consumpt	tion (GJ)			229,966	
	Water (Intake) (m	1 ³)			128,860	
	Chemicals Handle	ed (t)*			102	
Output	Greenhouse Gase	es CO₂: Scope1,	2 (tCO2)		11,819	
		CO2 from dis	ribution (tCO2)		1,623	
	Atmosphere	Particulate m	atter (t)		0.07	
		NOx (m ³)			19	
	Wator	SOX (m ³)	cod (m3)		- 70.275	
	vvatei	Discharged to	y.	R	ivers (Kaname Rive	r)
	Water Quality	BOD (t)			0.07	.,
		COD (t)			0.3	
		Nitrogen emi	ssions (t)		0.3	
		Phosphorous	emissions (t)		0.02	
		Release and I	ransfer of chemicals (t)*		29	
		Final disposa	of waste (t)		13	
Treated Water						
		Indicat	or	Regulatory Limit	Perfor	mance
Dansity of hydrog				E 9 9 6 mil	Minimum	Maximum
Mass of suspende	en ions (pn) ad matter (SS)			 5.0 - 0.0µ⊓ 70mg/L or less	7.2	0.1
Biochemical oxyge	en demand (BOD)			25mg/L or less	Less than 1.0	1.5
Mineral oils				-	-	-
Animal and vegeta	able oils			-	-	-
Chemical oxygen	demand (COD)			25mg/L or less	Less than 1.0	5.0
Normal hexane ex	tract content			5mg/L or less	Less than 1.0	Less than 1.0
Nitrogen content	(T-N)			 Less than 100mg/L	3.9	5.3
Phosphorus conte	m (I-P)			0.1mg/L or loss	0.07	0.4
Copper and copp	er compounds			1mg/L or less	Less than 0.05	Less than 0.05
Zinc and zinc com	pounds			1mg/L or less	Less than 0.05	Less than 0.05
Soluble manganes	se content			1mg/L or less	Less than 0.02	0.02
Iron and iron com	pounds (soluble)			1mg/L or less	Less than 0.05	0.37
Atmosphere					Derfer	
		Indicate	or	Regulatory Limit	Minimum	Maximum
Painting Booth	Benzene		(ppm)	10ppm	-	-
	Toluene		(ppm)	100ppm	0.2	0.6
	Xylene		(ppm)	150ppm	4	7
Boiler	Particulate matter	r	(g/h)	-	Evoluted from t	ha law since EV
	SOX donsity		(m³N/n)	-	2011, because of	the move to LNG
	NOx		(ppili) (m ³ N/h)	-	and the reductio	on in combustion
	NOx density		(mqq)	-	l cap	acity
Furnace	Dust density		(g/m³N)	0.2g/m³N or less	0.002	0.007
	SOx emissions de	ensity	(ppm)	5ppm or less	n/a	n/a
	NOx density		(ppm)	200ppm or less	2	2
DDTD	Concentration of	fluorine compour	ids (mg/m³N)	2.5mg/m³N	1.7	2.0
PRIK		Indicat	Dr	Volume Handled (kg)	Performa Emissions	ance (kg) Volume Transferred
Water soluble zind	c compound			 323	4	251
Ethylbenzene				 13,017	12,878	139
Xylene				14,536	14,208	139
dichloromethane	valont chromium com-	ounds		0.6	0	0
Chlorodifluoromet	valent chromium comp thane	ioulius		 9,146	2	0
1,1-dichloro-1-fluc	proethane			0	0	0
Toluene				 1,394	1,255	139
Lead and lead cor	mpounds			44,619	1	319
Nickel				 15,770	2	0
Benzene (Gasoline	2)			 0	0	0
∣ ı,∠,4-trimetnylben	izelie			2,/8/		. 0

Nagoya Works 1-7 Fujie Aza Orido, Higashiura-cho, Chita-gun, Aichi, Japan			297 Gochicho, Hi	Shiga Works gashiomi-shi, Shiga,	Japan	Sales/Marketing & Technical Division (Kasadera) 4-14 Shioya-cho, Minami-ku, Nagoya-shi, Aichi, Japan		
Radiators, Air coolers, Heater cores			Radiators, Oil coo	lers, Air coolers, EC	GR coolers, Fin coil	Trial phase products		
	163,869			285,419			91,289	
	11,698			62,126			22,856	
	0.5			32		4.607		
	572			644		-		
	0.02			<0.3		-		
Cannot calculate	377 due to measureme	nt value being ND	Cannot calculate	788 due to measureme	nt value being ND		-	
Carrie Calculate	8,774		Carrie Calculate	10,502		- 11,996		
	Rivers			Sewers		Sewers		
	0.05			-		-		
	0.4			-			-	
	0.03			-			-	
	0.5			0.8			1	
	7			38			0	
Regulatory Limit	Minimum	mance Maximum	Regulatory Limit	Minimum	mance Maximum	Regulatory Limit	Minimum	mance Maximum
5.8 - 8.6pH	6.9	7.3	6.0 - 8.5pH			5.0 - 9.0pH	6.4	7.4
30mg/L or less	Less than 1.0	3.0	Less than 20mg/L			600mg/L or less	Less than 0.5	24.0
	-	- 0.5	Less than Zong/L			0.5mg/L or less	2.4	Less than 0.5
-	-	-	-	Ceased use of in	tegrated water	30mg/L or less	-	Less than 0.5
30mg/L or less	4.1	15.0	Less than 20mg/L			25mg/L or less	-	-
Less than 120mg/L	- 3.2	40.0	- Less than 20mg/L			- Sing/L OF less	-	-
Less than 16mg/L	0.9	3.5	Less than 5mg/L			-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
Regulatory Limit	Perfor	mance	Regulatory Limit	Perfor	mance	Regulatory Limit	Perfor	mance
-	Minimum -	Maximum -	-	Minimum -	Maximum -	-	- Minimum	Maximum -
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
- 0.2g/m ³ N	- Less than 0.002	- Less than 0.002	- 0.2g/m³N	- ND	- Less than 0.025	- 0.1g/m³N	- Less than 0.002	- Less than 0.007
0.252m ³ N/h	Less than 0.002	Less than 0.009	1.75 (K value)	Less than 0.02	Less than 0.3	Less than 0.212m ³ N/h	Less than 0.002	Less than 0.008
180v/vppm	Less than 25	50	180.230ppm	Less than 5	Less than 10	180v/vppm	Less than 40	50
TOURSEALINAN	LESS UIDII U.O	1.1	(SUIREVIII.N)	LESS UIDIT T.U	LESS UIGHT I.U		LESS UIDII U.O	-
Volume Handled	Performa	ance (kg)	Volume Handled Performance (kg)		Volume Handled	Performa	ance (kg)	
(Kg)	Emissions 0	Volume Transferred	(Kg)	Emissions 0	Volume Transferred ∩	(Kg)	Emissions 0	Volume Transferred
1	0.1	0	263	212	25	0.3	0.3	0
1	0.1	0	1,298	269	32	0.5	0.5	0
0	0	0	9.710	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0.2	0	491 0	205	/5 0	0.5	0.5	0
0	0	0	19,420	0	0	0	0	0

1,165 *The value inside the () is the reference value. *The figures for volumes handled, volumes released, and volumes transferred also include chemicals other than the 12 substances targeted for reduction (cf p. 41). *ND means that it cannot be detected because it is a small value.

External Evaluation



In April 2016, we received a quality award from Toyota's Hirose factory. The "Honor Quality Award" recognized our achievement of zero defects on delivery for the last 4 consecutive years, including FY 2016.





In June 2016, we received a certificate of commendation from Daikin's Yodogawa factory (Oil Hydraulics Division). We were rewarded for our "achievement of zero defects in our deliveries of drawncup oil coolers to the Oil Hydraulics Division for 6 years."



We received a 2016 Excellent Quality Award from TMCAP (Toyota Motor (Changshu) Auto Parts).

In March 2017, we received an Outstanding Quality Control Award from Hino Motors.

In November 2016, we received a certificate of commendation for our cleaning of Higashiura town near the Nagoya Works as part of the "2016 Higashiura Town Public Facilities Adoption Program."



Obtained the highest environmental rating of A from the DBJ (Development Bank of Japan)



The highest rating for "Companies with excellent advanced environmental initiatives" After undergoing an environmental rating assessment by the DBJ in 2015, T.RAD obtained the highest possible rating and was given a preferential lending rate. The rating is awarded on the basis of an assessment of the company's environmental management, and a preferential interest rate is applied in accordance with this assessment. The assessment criteria are tightened every year to reflect the latest international trends. The fact that we have been getting the same "excellent advanced environmental initiative" assessment since 2012 shows that our environmental management has been continuously improving.

The DBJ website provides a list of Leading Recipients of Financing Based on Environmental Ratings. T.RAD appears on this list. http://www.dbj.jp/en/

Global Reporting Initiative (GRI) Content Index Sustainability Reporting Guidelines (G4)

Source: The GRI website: https://www.globalreporting.org/Pages/default.aspx

This report contains Standard Disclosures from the GRI Sustainability Reporting Guidelines. For General Standard Disclosures, we have selected and referred to the Core items.

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04-20		6. "Reason" on other
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Environmental Data and Material

Third Party Comments Afterword

Third Party Review of our CSR Report 2017



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Following the official coming into force of the "Sustainable Development Goals (SDGs)" of the UN on January 1, 2016, this was a year in which many civic societies, private companies, and local authorities questioned what sustainability is and what they can do at grounds. I'm sure a lot of people heard the word "SDGs" used. In this report, the President Mr. Kano commits to the CSR not as a separate issue unrelated to the business, but as the foundation for the company's sustainable growth (p. 2 of this document).

The SDGs are 17 goals and 169 targets for 2030 that were specifically listed in the "2030 Agenda for Sustainable Development" that was adopted at the UN summit in September 2015. In this report, the relationship with the SDGs is marked passim (pp. 39, 44). As with the SDGs, the report has also been designed in a way that the progress with the overall targets of the company, which can be easily understood for the readers. The comparison between 2017 objectives and results achieved in 2016 on p. 11-12 is particularly easy to understand. The environment is also linked to other SDG issues at the global level, including peace and the alleviation of poverty, so there are many other sections in this report where the relationship with SDGs could have been signaled.

It is to be positively noted that the T.RAD has substantially expanded the coverage biodiversity by devoting three pages to it (pp. 44-46). The topic of "addressing topics related to biodiversity" was suggested in last year's Third Party Comments, as well. It is implemented in terms of communication with local communities, the company is conducting community-based activities in collaboration with NPOs and universities (p. 28). It is also recognized that, in response to my request that the company deepen its activities to prevent global warming while preserving the accuracy of the information disclosure and the clarity of its comprehensive vision, the reduction of greenhouse gas emissions has been expressed in an easy-to-understand manner in terms of the equivalent number of cedar trees it would take to account for amount of the carbon dioxide absorbed, with the calculation method shown in the footnotes.

As a result, T.RAD has achieved many of its 2016 targets in fields like biodiversity. However, challenges remain for its initiatives to prevent global warming that, by the company's own account, failed to meet its 2016 targets. I refer, in particular, to its CO_2 emissions and energy consumption per monetary unit. Although a certain amount of fluctuation is unavoidable, I would ask that discussions be held on how targets can be achieved in the long run and creative actions be taken to put the conclusions into practice, regarding CSR as an area to be included in the management of business. Appropriately enough, climate change, which was one of the challenges left unsolved by Millennium Development Goals (MDGs), the predecessors of SDGs, has been highlighted as a big threat. It will take more than one year to work out how T.RAD, as a company, can contribute to the SDGs, so I look forward to reading its reports next year and beyond.

Afterword

We appreciate your taking the time to read the T.RAD CSR Report 2017. This report contains the Standard Disclosures from the GRI Sustainability Reporting Guidelines (G4). We have also expanded our descriptions of information security, our suppliers, the relationship between Sustainable Development Goals (SDGs) and material aspects of the environment, and our engagement with biodiversity.

This report has been published with the approval of the president, executive officers, and each subcommittee (p. 31). Some descriptions of ongoing standards and systems are the same as in the previous report (e.g., "How to Understand Product Environmental Efficiency Indicators" on p. 33). In the future, we hope to further improve this report and make it easier to read based on advice from third parties. We welcome your valuable feedback and comments regarding this report.

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